

§ 34.30

individual engine was on or before December 31, 1999:

Oxides of Nitrogen: $(40+2(rPR))$ grams/kiloneutons rO .

(iv) Engines of a type or model of which the date of manufacture of the first individual production model was after December 31, 1995, or for which the date of manufacture of the individual engine was after December 31, 1999:

Oxides of Nitrogen: $(32+1.6 (rPR))$ grams/kiloneutons rO .

(v) The emission standards prescribed in paragraphs (d)(1)(iii) and (iv) of this section apply as prescribed beginning July 7, 1997.

(2) For Class TSS Engines manufactured on or after January 1, 1984:

Hydrocarbons= $140 (0.92)^{rPR}$ grams/kiloneutons rO .

(e) Smoke exhaust emissions from each gas turbine engine of the classes specified below shall not exceed:

(1) Class TF of rated output less than 26.7 kiloneutons (6000 pounds) manufactured on or after August 9, 1985

$SN=83.6(rO)^{-0.274}$ (rO is in kiloneutons) not to exceed a maximum of $SN=50$.

(2) Classes T3, T8, TSS, and TF of rated output equal to or greater than 26.7 kiloneutons (6000 pounds) manufactured on or after January 1, 1984

$SN=83.6(rO)^{-0.274}$ (rO is in kiloneutons) not to exceed a maximum of $SN=50$.

(3) For Class TP of rated output equal to or greater than 1,000 kilowatts manufactured on or after January 1, 1984:

$SN=187(ro)^{-0.168}$ (ro is in kilowatts)

(f) The standards set forth in paragraphs (a), (b), (c), (d), and (e) of this section refer to a composite gaseous emission sample representing the operating cycles set forth in the applicable sections of subpart G of this part, and exhaust smoke emissions emitted during operations of the engine as specified in the applicable sections of subpart H of this part, measured and cal-

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culated in accordance with the procedures set forth in those subparts.

[Doc. No. 25613, 55 FR 32861, Aug. 10, 1990; 55 FR 37287, Sept. 10, 1990, as amended by Amdt. 34–3, 64 FR 5559, Feb. 3, 1999]

Subpart D—Exhaust Emissions (In-use Aircraft Gas Turbine Engines)

§ 34.30 Applicability.

The provisions of this subpart are applicable to all in-use aircraft gas turbine engines certificated for operation within the United States of the classes specified, beginning on the dates specified in § 34.31.

§ 34.31 Standards for exhaust emissions.

(a) Exhaust emissions of smoke from each in-use aircraft gas turbine engine of Class T8, beginning February 1, 1974, shall not exceed a smoke number (SN) of 30.

(b) Exhaust emissions of smoke from each in-use aircraft gas turbine engine of Class TF and of rated output of 129 kiloneutons (29,000 pounds) thrust or greater, beginning January 1, 1976, shall not exceed

$SN=83.6(rO)^{-0.274}$ (rO is in kiloneutons).

(c) The standards set forth in paragraphs (a) and (b) of this section refer to exhaust smoke emissions emitted during operations of the engine as specified in the applicable section of subpart H of this part, and measured and calculated in accordance with the procedure set forth in this subpart.

Subparts E–F [Reserved]

Subpart G—Test Procedures for Engine Exhaust Gaseous Emissions (Aircraft and Aircraft Gas Turbine Engines)

§ 34.60 Introduction.

(a) Except as provided under § 34.5, the procedures described in this subpart shall constitute the test program used to determine the conformity of new aircraft gas turbine engines with the applicable standards set forth in this part.

(b) The test consists of operating the engine at prescribed power settings on